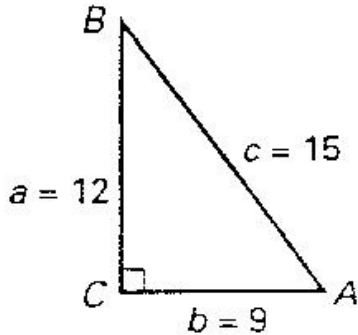


Name \_\_\_\_\_ Period \_\_\_\_\_

**Geometry Unit 7 Worksheet #6**

**For #1-6, write the trig ratio as a fraction in simplest terms.**



1.  $\sin A =$

4.  $\sin B =$

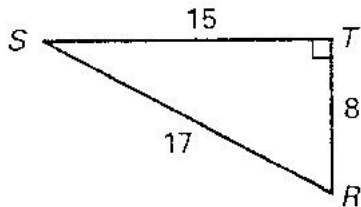
2.  $\cos A =$

5.  $\cos B =$

3.  $\tan A =$

6.  $\tan B =$

**For # 7 – 12, write the trig ratio as a fraction in simplest form.**



7.  $\sin R =$

10.  $\sin S =$

8.  $\cos R =$

11.  $\cos S =$

9.  $\tan R =$

12.  $\tan S =$

**For # 13-18, use your calculator to find the value of the trig function. Round to three decimal places.**

13.  $\cos 72^\circ$

14.  $\sin 19^\circ$

15.  $\tan 50^\circ$

16.  $\cos 27^\circ$

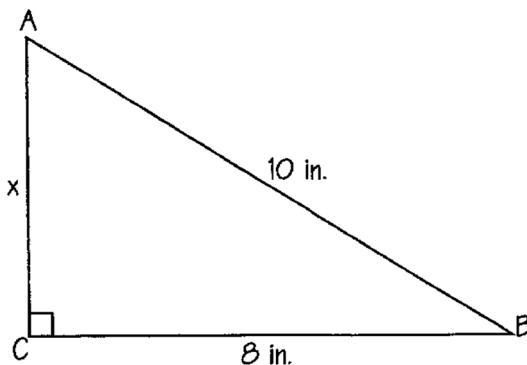
17.  $\sin 84^\circ$

18.  $\tan 23^\circ$

# What did the cannibal get when he was late for dinner?

Find the missing variables and trigonometric ratios. The answer to each problem will match a letter that will allow you to figure out the joke.

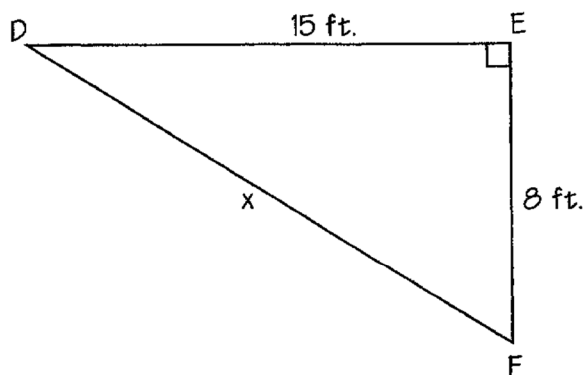
1.  $x =$  \_\_\_\_\_
2.  $\sin \angle A =$  \_\_\_\_\_
3.  $\cos \angle A =$  \_\_\_\_\_
4.  $\tan \angle B =$  \_\_\_\_\_
5.  $\tan \angle A =$  \_\_\_\_\_



- T:  $\frac{\sqrt{3}}{2}$   
 C:  $\frac{\sqrt{3}}{3}$   
 O:  $\frac{4}{5}$   
 R:  $\frac{15}{8}$

L: 6

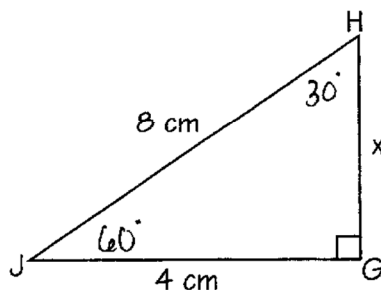
6.  $x =$  \_\_\_\_\_
7.  $\cos \angle D =$  \_\_\_\_\_
8.  $\tan \angle F =$  \_\_\_\_\_
9.  $\cos \angle F =$  \_\_\_\_\_
10.  $\tan \angle D =$  \_\_\_\_\_



- H:  $\frac{3}{5}$   
 U:  $\frac{1}{2}$   
 O: 17  
 H:  $\frac{4}{3}$   
 E:  $\frac{8}{17}$

D:  $\sqrt{3}$

11.  $x =$  \_\_\_\_\_
12.  $\tan \angle J =$  \_\_\_\_\_
13.  $\sin \angle J =$  \_\_\_\_\_
14.  $\tan \angle H =$  \_\_\_\_\_
15.  $\sin \angle H =$  \_\_\_\_\_



- E:  $\frac{3}{4}$   
 S:  $4\sqrt{3}$   
 L:  $\frac{15}{17}$   
 D:  $\frac{8}{15}$

13 5 9 14 2 7 10 11 3 6 15 1 12 4 8